2012 Postdoctoral Position in Nonlinear Dynamics at San Diego State University

The Nonlinear Dynamical Systems Group (http://nlds.sdsu.edu) at San Diego State University announces the availability of a postdoctoral fellowship to study high dimensional coupled systems with symmetry.

The main goal is to uncover and study the universal mechanisms by which nonlinear interactions, at various length scales, can lead to coherent self-regulated, self-sustaining, collective behavior in nano-oscillator systems and gyroscopic systems. Of particular interest are complex patterns that arise more commonly in higher dimensions and which can be exploited to enhance the performance and robustness of a dynamical system, for instance: heteroclinic orbits, chimera states, gluing bifurcations and many other patterns, e.g., synchronization, that are dictated by symmetry conditions.

The ideal candidate should have a background in dynamical systems and familiarity with symmetry-based methods and/or Hamiltonian systems.

The position is sponsored by a grant from the Army Research Office. U.S. Citizenship is not required. Starting date July 9, 2012.

Candidates interested in the position should arrange for two letters of recommendation and CV to be sent (by email or post-office) directly to:

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